

HISTORY  
COLLEGE OF MEDICINE  
1959-1968

CHAPTER 8

DEPARTMENT OF MEDICINE

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and  
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## I. GENERAL HISTORY, DEVELOPMENT, RESEARCH AND FACULTY HONORS

With the completion of the North Wing of University Hospital in the fall of 1959, the crowded circumstances in Kinsman and Starling Loving Halls were relieved. The Divisions of Endocrinology, Hematology, Neurology, Rheumatology, Hoster laboratory, Radioisotope laboratory, Gastroenterology and Cardiology were relocated on the ninth, tenth and eleventh floors and part of the second in the new wing of University Hospital. The administrative offices of the department remained in Kinsman until April 1961, when they also were moved to the tenth floor of the hospital. Dermatology, Allergy and Pulmonary Disease remained in Starling Loving Hall. In 1958, there were 190 members in the department, of which 22 were professors, 18 associate professors, 69 assistant professors and 81 instructors. Of the entire group, 25 were classified as geographically full-time. The internship plan of the general hospital was still rotating. However, the department averaged about 22 residents a year in the various specialties and 7-8 fellows in Cardiology, Rheumatology, Hematology, Infectious Disease and Endocrinology.

Without warning on March 3, 1960, Dr. Bruce K. Wiseman, Professor and Chairman of the department, was stricken with a massive cerebral hemorrhage while in conference in his office planning an American College of Physicians-requested course in postgraduate Hematology. He never regained consciousness and passed away March 15 after 30 years of service devoted to this school. Dr. Doan eulogized his long-time

associate by writing, "He was a beloved and honored teacher, a revered research colleague and a wise counselor for a vast host of grateful patients." Dr. Wiseman was Professor and Chairman of the Department of Medicine from 1944 until his demise in 1960.

In 1964, the animal research laboratory was formally named Wiseman Hall. This was the year the academic grading change was made from the standard alphabetical rotation to one of Satisfactory, Unsatisfactory and Honors. Dr. Henry J. Wilson, Vice Chairman of the Department of Medicine, was named acting chairman by Dean Doan. It was at this time that Dr. George J. Hamwi was named Director of the newly established Clinical Research Unit made possible by an N.I.H. grant of \$280,000 a year for five years. The unit consisted of ten beds with full-time professional, nursing and laboratory facilities for clinical investigation.

A committee consisting of Drs. George I. Nelson, William Ashe, Emmerich von Haam, Richard L. Meiling, Warren E. Wheeler, C. Joseph DeLor, Robert H. Browning and Robert M. Zollinger was appointed by Dean Doan to nominate a new chairman for the Department of Medicine. From a distinguished list of 30 candidates, Dr. James Vaughn Warren was the unanimous choice. On April 1, 1961, Dr. Warren assumed the Chairmanship after relinquishing a similar post he held at the University of Texas in Galveston. Under his direction, the Department of Medicine at Ohio State University has made remarkable strides during the past decade. The growth of the faculty, a vigorous new teaching program, and the surge in research is nothing short of

spectacular.

In 1967, there were 35 full-time faculty members and 167 part-time faculty members. Of these, 92 were certified by the American Board of Internal Medicine and 18 by other specialty boards. Eighty-four were affiliated with the American College of Physicians either as a fellow or as an associate. At the close of 1968, the full-time staff had increased to 43.

Faculty members have been increasingly recognized for their participation on a national basis in societies and communities dealing with medical education and research. In 1961, Dr. Warren was elected President of the American Heart Association and Dr. Hamwi, President of the Ohio State Medical Association. Dr. Charles Austin Doan was Chairman of the Department of Medicine from 1938 to 1944, and Dean of the College of Medicine from 1944 to 1961. He continued in the teaching and research program in Hematology until his retirement in 1965. Initially, Dr. Doan came to the Ohio State University from the Rockefeller Institute to establish the Department of Medical and Surgical Research which was later phased into the Department of Medicine. In 1964, Dr. Doan was the recipient of an Honorary Degree of Doctor of Science from Ohio State University; and in 1960, he was presented with the Distinguished Service Award of the American Medical Association. In 1966, Dr. Warren received the Gold Heart Award from the American Heart Association presented by Dr. Helen B. Taussig. Dr. Samuel Saslaw was the first physician to receive the coveted Ohio State University Alumni Award for Distinguished Teaching in 1963. Dr. John Prior was the recipient of this award in 1965. Between 1964 and 1968, Drs. DeLor, Saslaw and Beman received Alumni Achievement Awards at the Annual Alumni

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Meeting held in the spring. In 1968 Dr. Jack George was presented with a Five Year Research Career Development Award by the National Institutes of Arthritis and Metabolic Diseases. In 1967 Dr. DeLor received the first Distinguished Service Award by the Department of Medicine. Dr. William G. Myers, Associate Professor of Radiology, Professor of Medicine and Julius F. Stone Professor of Medical Biophysics, began his distinguished contribution to the Department of Medicine in the Doan-Wiseman era. He is internationally known for his research in radioisotopes, particularly cobalt and his unique courses given here in Nuclear Medicine.

The Wiseman Memorial Lecture was inaugurated in March 1962 by Dr. Carl Vernon Moore, Busch Professor of Medicine, Washington University, St. Louis. It was fitting for Dr. Moore to do this since he received his early hematological training with Doctors Doan and Wiseman. The list of distinguished speakers that followed him since then include Doctors William B. Castle, John H. Lawrence, C. Lockard Conley, Maxwell Wintrobe, R. Wayne Rundles and William H. Crosby. Kinsman Hall, which had long been a landmark of the Ohio State University, Division of Hematology, beginning with the Doan-Wiseman era in 1930 finally succumbed to the ravages of time. In April 1963 it was demolished as part of the new building program. Originally built in 1921 from funds donated by Charles Kettering, the structure was deemed expendable in the light of developments.

The formation of a separate Department of Physical Medicine in 1964 brought about the separation of this division and its director from the Department of Medicine. Dr. Ernest Johnson was named

Professor and Chairman of the new department now housed in its own expanding quarters in Dodd Hall.

Doctors Joseph Ryan, Dwight Palmer, Eldred Heisel and C. Joseph DeLor relinquished the directorship of their respective divisions during the 1965-67 era and were succeeded by Dr. Arnold Weissler in Cardiology, Dr. J. Norman Allen in Neurology, Dr. Richard D. Carr in Dermatology and Dr. Norton J. Greenberger in Gastroenterology. All of the former directors continue to be active and participate in their respective programs in the Department of Medicine. Dr. Wallace Jensen was appointed the Vice-Chairman of the Department of Medicine, and Director of the Division of General Medicine in 1967.

Dr. Charles Mengel, a Markle scholar on July 1, 1965 became the first appointee to the Charles Austin Doan chair of medicine and Director of the Division of Hematology. In 1968 he resigned from this position to become Professor and Chairman of the Department of Medicine at the University of Missouri and in his place Dr. Warren appointed Dr. Stanley Balcerzak as the new Director of the Division of Hematology.

The passing of Drs. Clifford C. Sherburne and Ray W. Kissane in 1965 brought to an end over 40 years of service by each of these men to the Department of Medicine. Both had achieved professorial rank and were highly respected as teachers and clinicians. The Department of Medicine was saddened by the death on February 14, 1967 of Dr. George J. Hamwi, Professor of Medicine and Director of the Division of Endocrinology and Metabolism. Dr. Hamwi's distinguished career at Ohio State University was terminated during its most active phase.

He served on many national committees and organizations. The Department, however, was fortunate in that Dr. Thomas G. Skillman agreed to accept the appointment to succeed Dr. Hamwi. Previous to this, Dr. Skillman had been associated with Dr. Hamwi some time previously at Ohio State University before becoming Chief of Endocrinology at Creighton University in Nebraska. Dr. Jack George was appointed program director of the Clinical Research Center. Dr. George joined the faculty in 1966 as Assistant Professor in Endocrinology.

On December 8, 1966, the Board of Trustees at the University approved the replacement of the Master of Medical Science degree with a Master of Science degree in certain departments of the College of Medicine. A new program was developed in the Department of Medicine to provide an opportunity for the development of individuals capable of basic and clinical investigation, to furnish an opportunity for experience in fundamental principles, and to prepare participants for possible academic careers. The program requires satisfactory completion of an original research project and the presentation of a thesis on the work as well as formal course work. Forty-five hours credit are required, 20 of which must be taken in departments other than the one in which the candidate has matriculated for his degree. Thirteen M.S. degrees have been awarded over the decade.

Changes in the operation of the Clinical Division of Medicine in University Hospitals have been many. A new Medical Intensive Care Unit has been established. It is side by side with the Coronary Care Unit and utilizes some of the same facilities and expert personnel for resuscitation and other emergency procedures. The



assimilation of the Ohio Tuberculosis Hospital by the University Hospitals was instituted during the academic year 1966-67. This meant that members of that hospital staff in medicine became in effect full time members of the Department of Medicine. At the same time the establishment of a combined Pulmonary-Allergy service as a residency and intern rotation spot was undertaken. In April 1968 Dr. Philip Bromberg assumed the Directorship of the Division of Pulmonary Diseases. Previously Dr. John A. Prior, now Associate Dean of the College of Medicine and Dr. Robert Atwell, Assistant Dean, and now Director of the School of Allied Medical Sciences, had previously been head of this Division. In the latter part of 1968 the divisions of Neurology, Pulmonary Disease and the expanding Coronary Care Unit began occupying remodeled sections of Means Hall, formerly the Tuberculosis Hospital.

In 1967 Dr. Thomas Ferris, a Markle scholar, assumed the Directorship of the Division of Renal Diseases. He succeeded Dr. James F. Schieve, who accepted the post as Assistant Dean at the University of Cincinnati in charge of the Continuing Medical Education Program of that University. Dr. Edwin J. Smith, who had been with the Division for several years following his Fellowship in Renal Disease left the University for private practice. During 1968 the formulation of the Division of Ambulatory Medicine was begun and Dr. Richard D. Ruppert was officially named as the Director of this new Division in the Department of Medicine. It constitutes a new concept in combined patient care and teaching. It is a part of an overall plan in the so-called family practice principle projected into

the future operational plans.

In 1959-60 the average number of published papers per year was approximately 76 in national and world-wide publication. By 1967 this had doubled in size to 146 papers in a 12 month period, of which 26 were co-authored by members of the Department of Medicine house staff. The Department has continued to have a sizeable number of distinguished visitors from the United States and abroad. In June 1967, for example, an international study group involved in a cooperative study in the use of anticoagulants in the long term management of coronary artery disease had its meeting in Columbus. Early in the decade there was an annual visiting professor who spent several days at Ohio State University College of Medicine as a guest of the Department of Medicine. By 1968 the number of distinguished visiting professors had increased to at least 1 or 2 every month, who participated in the academic exercises. At the close of 1968 there were 13 divisions in the Department of Medicine. A brief outline of the teaching research, activities and personnel of each follows. The detailed biography of the entire Department of Medicine will be found at the end of the various Divisional reports.

## II. COURSES OF INSTRUCTION

### Second-Year Courses

As an outgrowth of the several seminars on medical education held during the early part of this decade, the faculty expressed the need for the elimination of a number of "introductory" courses in the second year and for the formation of a new course that would coordinate much of the same material in a more meaningful fashion. Consequently, a committee composed of Dr. Charles F. Wooley, Dr. Dante Scarpelli, and Dr. John A. Prior as chairman was appointed to study ways of implementing the directions of the faculty. Out of their intensive studies came the design for the course entitled, "The Comprehensive Evaluation of the Patient," the over-all purpose of which is to introduce, in a stimulating and meaningful way, the student to the patient and his disease and the methods necessary to detect and evaluate evidences of disease.

During the Fall Quarter, the student learns the techniques of history taking and begins to acquire the skills of performing the physical examination. The Winter and Spring Quarters are devoted to student participation in (a) seminars covering a wide range of topics pertaining to common complaints of patients and (b) mastering his skills in history taking and physical diagnosis. This course, as presently constituted, is a multidisciplinary approach, and all clinicals departments in the College of Medicine provide instruction in their given areas. By actively involving the student in patient contacts and group discussions, we have undoubtedly improved his understanding of and compassion for the ill.

The Comprehensive Evaluation of the Patient is a very major educational undertaking, and so a coordinator is responsible for the over-all scheduling and arrangements. During the past several years, Dr. Charles F. Wooley and Dr. Richard M. Goodman have been responsible for coordinating this course.

During the past decade, the Physical Diagnosis textbook utilized in this course has been written by members of our faculty and edited by Dr. John A. Prior and Dr. Jack S. Silberstein.

### Third- and Fourth-Year Courses

During the early years of this period, the Department of Medicine had an average of 36 students from each of the third and fourth years on a required basis for one academic quarter. The third-year students rotated through the General Medical wards at University Hospital, the Ohio Tuberculosis Hospital, and the Psychiatric wards. The fourth-year students rotated through the General Medical and Subspecialty clinics and the private services at the affiliated hospitals.

With the adoption of the new curriculum during the academic year 1965-1966, one-third of the student class (50), during their third year, were assigned to the Department of Medicine for a required period of four months. This time is spent, to a large degree, as clinical clerks on the wards of the University Hospitals, with a smaller segment of time assigned to the Out-Patient Clinics of the Department of Medicine. At the same time, a large number of elective courses were made available to the students for their one-month elective time during the third year and for a much larger potential period of electives during the fourth year. In addition to General Medicine, these elective courses involved all of the traditional subspecialties of Medicine, such as Cardiology, Hematology, etc., and the student could spend his time in patient care in the Hospital or in the Out-Patient clinics, in the specialized laboratories of the Department, on research projects, or at the affiliated hospitals. The students elected to spend a large part of their time in these programs, and during the academic year 1967-1968 somewhat over half of the potential electives

chosen were courses in the Department of Medicine. The student contacts with the Department under the new curriculum were, therefore, probably increased even though the amount of time required to be spent in Medicine was diminished. This change in curriculum permitted a better matching of student interest with the capability of the Department of Medicine to offer student teaching programs.

Sometime in 1963, because of both faculty and student dissatisfaction with the rapid sweep through Medicine of the 8:00 didactic lecture program, a series of student conferences was instituted. In these conferences, the important fact was that the student played an active rather than a passive role in these conferences. Lectures on general medical topics were maintained at the second-year level and indeed were expanded. Numerous organized conferences of the Department of Medicine, in both General Medicine and the various Subspecialties, were also made available to the third- and fourth-year students.

### III. ACTIVITIES OF DIVISIONS

#### 1. Allergy

William F. Mitchell, M. D., Director

Studies in pseudo allergies, water-in-oil emulsions of allergenic extracts, penicillin sensitivity, allergenic antibody and immunologic syndromes involving electro-immunophoretic patterns are some of the subjects being investigated in this Division. Dr. James I. Tennenbaum became the first full time faculty member in Allergy in 1965. Drs. John H. Mitchell, Paul S. Metzger, D. O. Hankinson, John E. Martin, Douglas Smith, Charles A. Cunningham, Damon E. Wetterauer, John F. Condon, Charles Wilson and Herbert A. Bronstein participate in the out-patient clinics. Weekly out-patient clinics in addition to elective courses in research problems provide opportunities for student participation. A fellowship program in addition to one day post-graduate courses each year are offered. Five post-doctoral fellows have participated in the program at the Ohio State University Hospital. Twenty-six papers have been published by Drs. Mitchell (11) and Tennenbaum (15).

## 2. Ambulatory Medicine

Richard D. Ruppert, M. D., Director

Organized in July 1968 the Division of Ambulatory Medicine has as its purpose the teaching of ambulatory medical care. In addition to Dr. Ruppert, the Director, Drs. H. Campbell Haynie, Robert L. Folk, and Earl N. Metz are active full time members of the Division. The entire staff of the Department of Medicine in addition to the full time group assist in the operation of the clinic. Research in community health services and inter-departmental disciplinary activities for ambulatory patients are being carefully studied. The program is tailored to the needs of students, post-doctoral fellows and resident training. This new division in the Ohio State University College of Medicine's approach to newer thought in the management of out-patient problems is a result of the changing socio-economic status of the community.

### 3. Cardiology

Arnold M. Weissler, M. D., Director

Recent years have witnessed a major growth in the Cardiovascular Program at Ohio State University. This growth has been accomplished through the enlargement of our well developed programs in teaching, research and patient care and by the addition of several new and exciting long term projects. One new area of development is the project entitled "Biology of the Heart". This program facilitated through the support of the U.S.P.H.S has allowed us to initiate major steps toward integrating the basic scientific program of the Division of Cardiology with those in other departments of the university. The new laboratories for this program are presently housed in Sisson Hall of the College of Veterinary Medicine. These laboratories act as a focus for integrating basic cardiovascular studies in the Division of Cardiology with those in the Departments of Pathology, Physiology, Veterinary Physiology and Biochemistry. The new facilities have permitted the rapid growth of our research program in bioenergetics, cardiac ultrastructure, cellular and organ electrophysiology and fundamental control mechanisms in the circulation. In addition the Division has participated actively in the planning for a major cardiovascular center on the campus of Ohio State University. This program has been supported by a planning grant from the United States Public Health Service. The development of this center has been greatly aided by a grant-in-aid from the National Heart Institute for the creation of a Core Facility for Cardiovascular Research and Training. This grant has catalyzed the growth of the interdisciplinary clinical research program in cardiovascular medicine. It includes participation by members of the Departments of Surgery, Pathology, Physiology,



Electrical Engineering and Mathematics. The physical facilities of the Core Facility will be completed this year and the major research focus will be on the management of complications of acute myocardial infarction. An additional innovation is a mobile cardiac care unit, activated in April 1969. This unit, designed to attain a better understanding of the nature of "heart attack" in the general population will permit early observation of patients with acute cardiovascular collapse. The unit will work in close coordination with the facilities of the Coronary Care Unit and the Core Facility. Finally, we have acquired two new laboratories for research in myocardial metabolism in the Wiseman Hall Health Research Center.

In addition to these newer developments, there has been an expansion in the service and teaching facilities of the Division of Cardiology. A newly adapted, automated electrocardiographic system began operation in March 1969. The cardiovascular diagnostic laboratories are to be expanded during the summer of 1969. The outpatient facility has been relocated for better patient management and student participation. The Division now operates two training grants funded by the National Heart Institute and there are currently eight Fellows in training. A total of 28 post-doctoral Fellows have been trained during the past 10 years. An active visiting professor program has been inaugurated and from 10 to 15 distinguished professors visit the division annually.

Publications from the Division of Cardiology during the past ten years include 74 original publications and 14 manuscripts in preparation. In addition a film entitled: "Murmurs Arising in the Right Ventricular Inflow Tract in Man: Tricuspid Stenosis" has been produced.

Present Faculty Members in the Division of Cardiology are:

Weissler, Arnold M., Professor of Medicine, Director, Div.  
of Cardiology

Ryan, Joseph, M., Professor of Medicine

Leighton, Richard F., Assistant Professor, Director,  
Coronary Care Unit

Wooley, Charles F., Associate Professor, Director, Cardiac  
Diagnostic Laboratory

Warren, James V., Professor of Medicine, Chairman, Depart-  
ment of Medicine

Previous Faculty Members over the decade are:

Schoenfeld, Clyde D., B.A. Youngstown University 1952; M.D.  
Ohio State University 1956; Instructor 1965-65, Asst.  
Prof. 1965-68, O.S.U. Present affiliation - Division  
of Cardiology, Mt. Sinai Hosp., 4300 Alton Rd., Miami  
Beach, Florida.

Harris, Willard S., B.A. Cornell Univ. 1953; M.D. New York  
Univ. 1957; Instructor 1964-64, Asst. Prof. 1965-68,  
O.S.U. Present affiliation: Dept. of Medicine, Univ.  
of Illinois Research and Educational Hospital, 840 S.  
Wood St., Chicago, Illinois.

Leonard, James J., B.A. Georgetown Univ. 1946; M.D. George-  
town 1950; Asst. Prof., Georgetown 1957-59; Assoc. Prof.,  
Univ. of Texas 1959-61; Assoc. Prof., O.S.U., 1961-62.  
Present affiliation - Dept. of Medicine, Univ. of Pitts-  
burgh, Pittsburgh, Pennsylvania.

Booth, Richard W., Pre-Med Xavier Univ. 1942-43, 1946-48;  
M.D. Univ. of Cincinnati 1952; Instructor 1956-59,  
Asst. Prof. 1959-61, O.S.U. Present affiliation - Dept.  
of Medicine, Creighton Univ., Omaha, Nebraska.

Runco, Vincent, M.D., O.S.U., 1955; Instructor, O.S.U.,  
1960-61. Present affiliation: Creighton Univ.,  
Omaha, Nebraska.

Hall, Hugh, B.A., O.S.U. 1942; M.D., O.S.U. 1944; Asst.  
Prof. O.S.U. 1953-59. Present affiliation: Dept.  
of Medicine, St. Luke's Hospital, Phoenix, Arizona.

#### 4. Dermatology

Richard D. Carr, M. D., Director

Since 1968 Dr. Carr has been Director of the Division which previously had been under the supervision of Dr. Eldred B. Heisel. In 1963 an approved resident training program was inaugurated. In 1967 and 1968 an N.I.H. sponsored Fellow has been filled successively by Drs. Alfred Sorenson and Richard Belcher.

Dr. William Tarnowski was appointed Assistant Professor full time in 1968. Besides Drs. Carr, Heisel and Tarnowski eight part time physicians assist in the divisional activities, Drs. Louis L. Praver, Joseph Shepard, Roland E. Long, Arthur J. Tronstein, James H. McCreary, Homer Williams, Robert Levine and Alston M. Quillen.

Thirty-four papers have been published, or are in press, by Drs. Carr, Heisel and Tarnowski between 1958 and 1969.

## 5. Endocrinology and Metabolism

Thomas G. Skillman, M. D., Director

The Division of Endocrinology and Metabolism had its origin in 1949 when George J. Hamwi returned to Columbus after spending a year as a research fellow at Cornell with Dr. Ephaim Shorr. During the early 1950's Dr. Hamwi's great energy and professional dedication advanced the Division to a stature of recognized excellence in the spheres of patient care, teaching and clinical research. Fred A. Kruger, M. D. joined the Division and became responsible for its biochemical and laboratory-based research and service activities. A graduate training grant program in Endocrinology sponsored by the National Institute of Arthritis and Metabolic Diseases of the N.I.H. was instituted for post M.D. students. The University Hospital Endocrinology Laboratory was established to provide full availability of specialized laboratory services of the discipline.

From this base the achievements of the 1958-68 decade became possible. During the period more than 200 scientific papers were published. The approach to research remained broad with emphasis on both fundamental in vitro work and clinical investigation. The spectrum of interest encompassed studies of the pituitary, thyroid, adrenal and parathyroids as well as continued intensive activity in the areas of carbohydrate and lipid metabolism. Equal effort was exercised in patient care and teaching. The in-patient service gained a reputation for excellence in diagnosis and management and became a popular rotation for the house staff. A large referral of categorical consultations was developed assuring

continued availability of stimulating patient-oriented clinical problems.

In 1957 Dr. Hamwi was joined by Dr. Thomas G. Skillman who finished training in Metabolism under H. C. Knowles at the University of Cincinnati. Dr. Skillman remained at Ohio State until 1961 when he left to become Director, Division of Endocrinology at Creighton University. In 1961 Dr. Grant Gwinup and Dr. Clarence Gantt joined the Division. At this time Dr. Hamwi assumed Directorship of the Ohio State University Clinical Research Center, a 12 bed research activity. This unit is supported by NIAMD and staffed by over 20 research personnel. In 1965 Dr. Gwinup left the Division to assume Directorship of the Division of Endocrinology of the University of California at Irvine and Dr. Ralph G. Wieland joined the Division following completion of his training at Western Reserve University. Each of the younger men brought increased diversity and fresh creativity to the Division and permitted expansion of both research and patient care endeavor.

In February 1967 Dr. Hamwi died suddenly of a myocardial infarction. At this time his work and accomplishments were at their fullest. He had been serving the American Diabetes Association as Treasurer, Member of the Board of Directors, Chairman of the Committee on Professional Education and was editing Volume 2 of Diabetes Mellitus: Diagnosis and Treatment. He was equally involved with his duties as President of the Central Ohio Diabetes Association. The sudden loss of Dr. Hamwi's leadership necessitated a re-organization of the Division personnel. New faculty members were recruited from Dr. Hamwi's training program in the persons of Dr. Manuel Tzagournis and Dr. Robert L. Folk, who were complemented by Dr. Jack George, who received training under Dr. Fred Barrter at N.I.H.

and the Department of Biochemistry at Harvard University.

In mid-1967, Dr. Skillman returned to Ohio State and assumed Directorship of the Division. Since then, the Division has retained its posture of providing a full spectrum of research activities and offering expert subspecialty consultation. It currently operates a 27-bed in-patient service, weekly Diabetes and Endocrinology out-patient clinics and trains four post-doctoral research fellows. At present, over 20 research projects are being undertaken; the more fundamental studies are being directed by Drs. Fred Kruger and Jack George, and the clinical research studies are conducted by Drs. Manuel Tzagournis, Robert Folk and Thomas Skillman. The Division continues to contribute significantly to undergraduate and graduate teaching, curriculum revision and affairs of the Department of Medicine. During the past year, over 20 research manuscripts have been published.

Residents and fellows since 1964 are:

Schachner, Steven	1964-65
Riley, Thomas	1964-65
Tzagournis, Manuel	1965-66
Folk, Robert L.	1965-67
Hollobaugh, Samuel L.	1965-68
Sidensticker, John F.	1966-67
Rasheedudin, Syed	1967-
Herrold, Joyce H.	1967-
Chiles, Ross P.	1967-
Mazzaferri, Ernest L.	1968-
Cataland, S.	1968-

## 6. Gastroenterology

Norton J. Greenberger, M. D., Director

The faculty of the Division of Gastroenterology consists of four full time members, Norton J. Greenberger, Associate Professor of Medicine and Director of the Division, C. Joseph DeLor, Professor of Medicine, Floyd M. Beman, Professor of Medicine and Richard D. Ruppert, Assistant Professor of Medicine. The Division maintains an inpatient service of 30 beds at University Hospital. A broad spectrum of intestinal disorders and liver disease is seen, including a large number of patients with inflammatory bowel disease, malabsorption, peptic ulcer disease and cirrhosis. In addition, there are separate facilities for the performance of gastrointestinal endoscopy (esophagoscopy, gastroscopy and sigmoidoscopy) and specialized diagnostic procedures (esophageal perfusion and manometry, esophageal dilatation and small intestinal biopsy).

A clinical conference, research seminar, journal club, x-ray conference and consultation rounds on other medical and surgical services are part of the weekly program. From 1958-1963 an A.M.A. approved one year residency training program in gastroenterology was in effect. This was changed to a fellowship training program in 1965. Currently the post-doctoral fellowship training program is for a two year period and is designed for physicians who wish to develop specialized clinical skills and also obtain investigative experience in gastrointestinal disease.

Laboratories for evaluation of clinical problems as well as research facilities are maintained. Current investigative interests of the

Division include intestinal absorption of iron, intestinal transport of digitalis glycosides, structure and function of the intestinal brush border, metabolic effects of medium chain triglycerides, gastric lipase and malabsorption associated with endocrinopathies.

In 1962 a two day post-graduate course on "Frontiers in Gastroenterology" was attended by 285 registrants. Eight visiting professors (Robert Bolt, University of Michigan, Sumner Kraft, University of Chicago, J.L.A. Roth, Graduate School of the University of Pennsylvania, Julian M. Ruffin, Duke University, H. B. Sullivan and Frances D. Owens, Cleveland Clinic, Alvin J. Cummins, University of Tennessee and Nicholas C. Hightower, Scott-White Clinic) joined our own faculty to inaugurate the first of a series of continuing education programs.

1966 - Diseases of the Colon. The visiting professor was Harold Roth of Case Western Reserve University School of Medicine.

1967 - Diseases of the Small Bowel. The visiting professor was Harvey Dworkin of Case Western Reserve University School of Medicine.

1968 - Diseases of the Liver and Biliary Tract. The visiting professor was Gerald Klatskin of Yale University School of Medicine.

Thirty-four papers were published during the past ten years, twenty-nine of which were in the 1965-69 period.

Mr. Samuel Hanley established the C. J. DeLor Fellowship Training Fund in Gastroenterology in 1968.



RESIDENCY AND FELLOWSHIP TRAINING - 1958-1968

<u>Year</u>	<u>Resident (R) or Fellow (F)</u>	<u>Current Status</u>
1959	F. A. Haydar (R)	Practice - Iran
1960	Jacques O'Hara (R)	Practice - Dayton, O.
1961	Robert Diserens (R)	Practice - Phoenix, Ariz.
1962	H. Neil Lee (R)	Practice - Lumberton, N. C.
1965-67	Richard D. Ruppert (F)	Asst. Prof. of Med., O.S.U.
1966-68	Samad Saegh (F)	Fellow - Ottawa, Canada
1967-68	Thomas Graves (F)	Practice - Wooster, O.
1968-	James H. Caldwell (F)	
1968-	Frank M. McCullough (F)	

7. General Medicine

Wallace N. Jensen, M. D., Director

This division, formally organized in 1967 under the leadership of Dr. Wallace N. Jensen, constitutes the largest of the divisions. It encompasses all of the General Medicine wards with approximately a 90 bed census. The personnel are drawn from the faculty for their assigned service on the wards as part of their teaching responsibility. As Vice-Chairman of the Department of Medicine Dr. Jensen shares the Administrator's responsibilities and is in charge of the formal academic program.

## 8. Hematology

Stanley P. Balcerzak, M. D., Director

This decade was a time of great transitions in a much honored division. It included, in 1960, the untimely death of Dr. Bruce K. Wiseman, a world reknowned hematologist; the retirement of Dr. Charles A. Doan, even more reknowned for his contributions to clinical and hematologic research; the appointment of Charles E. Mengel, in 1965, to fill the Charles A. Doan professorship and assume directorship of the division until his departure in 1968. Therefore, the personnel of this division over this decade included:

Charles A. Doan - Dean of the College of Medicine until 1961 and subsequently Director of the Division of Hematology until his retirement from academic medicine to pursue the practice of hematology in 1966.

Bruce K. Wiseman - Chairman of the Department of Medicine until his death in 1960.

Robert L. Wall - Professor of Medicine

Henry E. Wilson - Professor of Medicine

Bertha A. Bouroncle - Associate Professor of Medicine

Stanley P. Balcerzak - Associate Professor of Medicine, who joined the division in 1967 coming to us from the University of Pittsburgh.

Wallace N. Jensen - Professor of Medicine and Vice Chairman of the Department of Medicine, formerly Head of the Division of Hematology at Pittsburgh, who joined this division in 1967.

Dr. Earl Metz - a former interne at Ohio State University Hospital, subsequently Chief Resident at Duke University, who joined the division in 1968 as Assistant Professor.

The activities of the Division have entailed producing a post-graduate course in Advances in Hematology for the American College of Physicians which

was well received and oversubscribed in 1961. The Division also served as host organization for the National Meeting of the American Society of Hematology in 1963; this being the first time to our knowledge that a national society of great size held its annual national meeting in Columbus. The usual triple responsibilities of the Division continued, including patient care for a vast number of patients with hematologic problems. This asset in turn produced active training for a large number of post-graduate medical scholars and a foundation for active research in the field of hematology.

Dr. Charles Mengel's short term as Director of the Division produced a period of marked influence from 1965 until 1968 with a great surge in vitality and productive research in the field of tryptophan metabolism and great in depth study of the oxidation of the red cell membrane lipids in paroxysmal nocturnal hemoglobinuric patients and in animals as well as invaluable studies of NASA sponsored research on the effects of hyperoxia on astronauts. Dr. Wilson continued his work on the identification of antibodies reactive against leukocytes and platelets. Dr. Bouroncle was most productive in invitro leukocyte cultures specifically in the understanding of lymphoblastic transformation in normal and leukemic patients. Her continued studies in the field of Hodgkin's disease also have been most productive. Dr. Wall continued his work publishing on chemotherapy of leukemias and lymphomas as well as genetic studies of a large Ohio population of Amish with a hereditary coagulation defect. Dr. Balcerzak brought his intense interest in iron metabolism research to further fortify the diverse interests of the Division and, finally, Dr. Jensen contributed his broad interest in his continued research on hemoglobinopathies.

The continued program of chemotherapy research sponsored first under the Midwestern Chemotherapy Cooperative Study Group and subsequently by the Southwestern Cooperative Chemotherapy Study Group is maintained mainly through the major efforts of Dr. Henry Wilson, who is coordinator of this activity.

The outstanding product of any teaching institution remains the human product, that is, those men trained to leave and carry the fruits of their training to others. A great number of graduate physicians continue to be trained including Drs. Wilk West, William Barry, Fred Conrad, Hernando Serasti, Charles Coltman, Jonas Strouth, Thomas Christ, George Pavlic, Mehdi Kajani, Richard Smalley, Marciaq Altafulla, Charles Wabner, Herbert Kann, Anuaral Haq, Julian Decter, Fernando Padilla, James Ungerleider, Nye Larimer, John Kurtz, Art Sagone and Lee Dameshek. The majority of these men finishing their training, hold academic positions at other institutions carrying on the long-standing traditions of Drs. Doan and Wiseman in their training programs of previous years.

A great number of investigations of clinical and basic research interests have been presented at national and regional meetings as well as being published in medical journals. An estimate of these would surely exceed 100. Therefore, in a period of great transition over this decade, with the loss of keyed, strong personnel, the tradition of excellence within this Division has been maintained and enhanced.

## 9. Infectious Disease

Samuel Saslaw, M. D., Director

The 32 bed Infectious Disease Unit is manned by Drs. Samuel Saslaw, Robert Perkins and Albert S. Klainer, all of whom are full time. In addition to the research program in the hospital a primate lab is housed in two buildings on Kinnear Road. Upwards of 200 monkeys make up the colony used in infectious disease manifestations. Dr. Perkins joined the Division after an N.I.H. training program in 1963 and Dr. Klainer, who received his training at Tuft in Boston, arrived in 1968. Drs. Jerry Bloom, Gary Gloutz, David Yahr and George Wolf all took post-doctoral training under Dr. Saslaw. The post-graduate course in Infectious Diseases has proved to be very popular.

Dr. Saslaw and Dr. Harold N. Carlisle, Associate Director of the Primate laboratories have been studying the aerosol transmission of Rocky Mountain spotted fever to monkeys and the effects of splenectomy as immunity to various bacteriological challenges.

The monkey model is ideal to study the effects of antibiotics under controlled conditions. The eminence of this institution as a sub-human primate research center has attracted grants from the Public Health Service, Army and various pharmaceutical concerns.

Dr. Perkins' contributions in the investigation of the Cephalosporin group of antibiotics and Dr. Klainer's studies in serum glycoproteins have had fundamental basic effects on our understanding of these problems.

In the past ten years Dr. Saslaw has published 85 papers, Dr. Perkins 20 in the last 7 years and Dr. Klainer 12 since completing his training.

## 10. Neurology

J. Norman Allen, M. D., Director

The current members of the Division of Neurology are Drs. Dwight M. Palmer, Director of the Division from 1945-1965, George M. Paulson, Wigbert C. Wiederholt, Edwin C. Shuttleworth, Harvey M. Friedman, George A. Perrine, James A. Vaughan, Earl S. Sherard, Jr. and Norman Allen, Professor and Director of the Division since 1965. Previous faculty members were Drs. N. Michael, 1946-61, H. Evans, 1946-62, E. Green, 1962 and Judson S. Millhon, 1961.

In 1965 there was a rapid expansion of the Division of Neurology. New faculty were added and programs in teaching were instituted at multiple levels. A residency program was instituted and approved in 1965 for a full three year period of training. Two trainees completed their programs in 1968, Drs. George Perrine and James A. Vaughan. Teaching activities have been carried out in the general field of Neurobiology with the cooperation of the Departments of Physiological Chemistry, Laboratory of Neuropathology, Psychiatry, Veterinary Pathology, Pharmacology, Neuroanatomy, Pediatrics, Physical Medicine and Neurosurgery.

Graduate courses offered include seminars in Neurophysiology, Electroencephalography, Neurochemistry and Developmental Neurology. The clinical facilities now include a 30 bed unit in Means Hall with laboratories and offices. Laboratories are operational in experimental Animal Neurology, Electrophysiology, Neurochemistry and Histochemistry. In addition to the faculty, medical students, graduate students in Physiological Chemistry

and Postdoctoral Fellows are trained. Dr. E. C. Shuttleworth completed his Research Fellowship in 1967. Drs. Nancy R. Clendenon and Takashi Komatsu are in training in 1968. Financial support has been received from the National Institute of Neurological Diseases and Stroke, the National Cancer Institute, The Central Ohio Heart Association, National Institutes of Health Institutional Grants, the Meeks Fund, the Kistler Fund and independent donors.

In 1963 Dr. Allen was an N.I.H. Research Career Development Awardee. Dr. Palmer was President of the American Academy of Forensic Sciences in 1964-65. During 1966 Dr. Paulson was the Visiting Professor in Mental Retardation at Peabody School and Vanderbilt University. Dr. Wiederholt was the recipient of the S. Weir Mitchell Award from the American Academy of Neurology in 1965.

The research activities of the members of the Division of Neurology include studies in electroencephalography, disability rating scales for neurological and psychiatric disorders, mental retardation, developmental neurology, dementias, genetic disorders, motor inplate activities, peripheral nerve physiology, disorders of memory, microchemistry of the nervous system, enzyme chemistry of brain tumors, chemistry of cerebral infarction, spinal fluid enzymes, vascular diseases and hereditary disorders of the nervous system. From these investigations 151 published papers and 2 books were the culmination of the efforts of the members of the division.



## 11. Pulmonary Disease

Philip Bromberg, M. D., Director

Under the direction of Dr. Bromberg the Division of Pulmonary Disease is being forged into a strong area of instruction and research. In the early years Drs. John A. Prior, Robert Atwell, Robert H. Browning and Joseph F. Tomashefski were the guiding members. Dr. Prior became Associate Dean of the College of Medicine, Dr. Atwell took charge until he was named Assistant Dean and Director of the School of Allied Medical Sciences. For a short period Dr. Richard Brashear returned to lend his support to the Division, but after a year he was appointed to a similar post at the University of Indiana with Dr. John B. Hickam. Dr. Robert H. Browning was Director of the Ohio Tuberculosis Hospital in the University group, prior to its merge into the Department of Medicine when the administration reorganization occurred in 1967.

The members of this Division averaged about ten publications a year based on research in various aspects of pulmonary physiology, antimicrobial drugs, therapy of carbon monoxide poisoning, cystic fibrosis and studies on bronchography.

## 12. Renal Disease

Thomas F. Ferris, M. D., Director

In 1967 Dr. Ferris, a Markle scholar, became the Chief of the Renal Disease Division succeeding Dr. James F. Schieve, who accepted a post as Assistant Dean at the University of Cincinnati. Four Fellows trained in the Division from 1962 to 1967, Drs. William T. Carter, Edwin J. Smith, John R. Evans and Duane Wombolt. Subsequently Drs. William T. Carter and Edwin J. Smith joined Dr. Schieve and Dr. James M. Carhart as members of the faculty. Dr. David J. Warren, a graduate of Oxford, England is presently a Fellow in the Division (1968-69). In the past ten years 22 papers were published by the members of this Division.

The hemodialysis unit was established during the middle years of this period and at present a new teaching and research program is being developed by Dr. Ferris.

### 13. Rheumatology

Francis D. McCoy, M. D., Director

Dr. Glen Gresham, Assistant Professor of Medicine and Dr. McCoy, Associate Professor of Medicine and Director of the Division, are both full time members of the faculty. Seven part time associates include Drs. Vol K. Philips, Richard Messick, Reynold Klages, Richard Jacques, Marvin Thomas and Robert Murphy and Dr. John Melvin, Assistant Professor, Department of Physical Medicine. In-patient services are maintained in the University Hospitals including Means, Upham and Dodd Halls. Research activities and publication of the members of the Division have dealt mainly with serologic tests for arthritis and clinical evaluation of drugs used in the treatment of these diseases. Fourteen publications have resulted from this division during the 1958-68 era.

IV BIOGRAPHICAL DATA

- Allen, J. Norman  
M.D., Harvard Medical School 1949; Prof. 1965- ; Dir., Division of Neurology  
1965- Neurology
- Arnoff, Ben  
A.B., U. of Michigan 1934; M.A., O.S.U. 1936; M.D., O.S.U. 1939; Instr. 1946;  
Asst. Prof. 1968- General Medicine
- Ashe, William F.  
see Department of Preventive Medicine
- Atwell, Robert J.  
A.B., Duke U. 1941; M.D., Duke U. 1944; Asst. Prof. 1950; Assoc. Prof. 1956;  
Prof. 1966- ; School of Allied Medical Professions; Acting Dir., Division of  
Pulmonary Diseases 1964-68 Pulmonary Diseases
- Ayres, Perry R.  
A.B., Oberlin Coll. 1938; M.D., Western Reserve U. 1942; Asst. Prof. 1952;  
Assoc. Prof. 1962; Prof. 1968- General Medicine
- Balcerzak, Stanley P.  
B.S., U. of Pittsburgh 1951; M.D., U. of Maryland 1955; Assoc. Prof. 1967- Hematology
- Bartholomew, Raymond K.  
B.A., U. of Wisconsin 1932; M.D., U. of Chicago 1935; Asst. Prof. 1960- General Medicine
- Beman, Floyd M.  
A.B., O.S.U. 1939; M.D., O.S.U. 1943; Instr. 1948; Asst. Prof. 1950; Assoc.  
Prof. 1952; Prof. 1965- Gastroenterology
- Block, Malcolm  
A.B., Miami U. 1934; M.D., U. of Michigan 1939; Asst. Prof. 1955-60 General Medicine
- Bolton, Barrett H.  
A.B., Stanford U. 1952; M.D., Northwestern U. 1956; Instr. 1965; Asst. Prof.  
1966-67; 1968- General Medicine
- Bonnell, George H.  
A.B., O.S.U. 1938; M.D., O.S.U. 1938; Instr. 1951; Asst. Prof. 1968- General Medicine
- Booth, Richard W.  
M.D., U. of Cincinnati 1952; Instr. 1956; Asst. Prof. 1959-61 Cardiology
- Bouroncle, Bertha A.  
M.D., U. of San Marcos, Lima, Peru 1947; Instr. 1953; Asst. Prof. 1954; Assoc.  
Prof. 1957- Hematology
- Bowers, Donald F.  
B.Sc., O.S.U. 1924; M.D., O.S.U. 1926; Instr. 1928-33, Dept. of Surgery;  
Instr. 1946; Asst. Prof. 1949; d. 1968 General Medicine

- Bradley, William F. Endocrinology  
B.A., O.S.U. 1939; M.S., U. of Minnesota 1947; M.D., O.S.U. 1943; Instr. 1949;  
Asst. Prof. 1950; Assoc. Prof. 1962-
- Bromberg, Philip A. Pulmonary Diseases  
B.S., Queens Coll. 1949; M.D., Harvard Medical School 1953; Assoc. Prof. 1968- ;  
Director, Division of Pulmonary Diseases 1968-
- Browning, Robert H. Pulmonary Diseases  
B.A., Oberlin Coll. 1923; M.D., Western Reserve U. 1927; Prof. 1951- ; Medical  
Director, Ohio Tuberculosis Hospital 1951-66
- Burk, Richard D. General Medicine  
B.S., Regis Coll. 1943; M.A., O.S.U. 1955; M.D., Creighton U. 1951; Instr. 1955;  
Asst. Prof. 1956; Assoc. Prof. 1958-65
- Carhart, James M. Renal Diseases  
B.S., Western Reserve U. 1949; M.D., Northwestern U. 1952; Instr. 1959; Asst.  
Prof. 1963-66
- Carr, Richard D. Dermatology  
B.A., O.S.U. 1951; M.D., O.S.U. 1954; Asst. Prof. 1963; Assoc. Prof. 1966- ;  
Dir., Division of Dermatology 1967-
- Carter, Earl T. General Medicine  
B.S., Northwestern U. 1944; M.S., Northwestern U. 1950; Ph.D., U. of Texas 1955;  
M.D., Northwestern U. 1948; Instr. 1956-60; Asst. Prof. 1956-60, Departments of  
Physiology and Preventive Medicine
- Carter, William T. Renal Diseases  
M.D., U. of Virginia 1957; Instr. 1963; Asst. Prof. 1965-
- Cassell, Homer D. General Medicine  
A.B., Otterbein Coll. 1917; M.D., Western Reserve U. 1921; Asst. Prof. 1956-65
- Cassell, William G. General Medicine  
B.A., Denison U. 1947; M.D., Western Reserve U. 1951; Instr. 1960; Asst. Prof.  
1962-
- Clodfelter, Harve M. General Medicine  
A.B., U. of Kansas 1927; M.D., U. of Kansas 1930; Instr. 1938; Asst. Prof. 1946-
- Conn, James J. Cardiology  
B.A., O.S.U. 1938; M.D., O.S.U. 1943; Instr. 1946; Asst. Prof. 1956-
- DeLor, C. Joseph Gastroenterology  
A.B., U. of Michigan 1928; M.Sc., O.S.U. 1934; M.D., O.S.U. 1934; Instr. 1938;  
Asst. Prof. 1940; Assoc. Prof. 1949; Prof. 1957- ; Dir., Division of Gastroen-  
terology 1951-67
- DeMerit, Paul M. General Medicine  
B.S., U. of Pittsburgh 1945; M.D., U. of Pittsburgh 1947; Instr. 1954; Asst.  
Prof. 1955; Assoc. Prof. 1965-

- Doan, Charles A. Hematology  
B.S., Hiram Coll. 1918; M.D., Johns Hopkins U. 1923; Prof. and Chr., Dept. of Medical and Surgical Research, 1930-36; Prof. of Research Medicine, 1936-61; Prof. of Medicine 1936; Emer. Prof. 1961- ; Chr., Dept. of Medicine, 1936-44; Dean, Coll. of Medicine, 1944; Emer. Dean 1961- ; Physician-in-Chief, Starling Loving and St. Francis Hospitals, 1936-44; Director of Starling Loving Hospital 1944-51, of University Hospital and Health Center, 1951-61; Dir., Division of Hematology, 1952-65
- Donnerberg, Roy L. Pulmonary Diseases  
B.S., U. of Cincinnati 1947; M.D., U. of Cincinnati 1950; Instr. 1957; Asst. Prof. 1962-
- Engelman, Elmer D. see Department of Pharmacology
- Evans, Harrison S. General Medicine  
M.D., Coll. of Medical Evangelists 1936; Instr. 1938; Asst. Prof. 1946; Assoc. Prof. 1948-62
- Evans, Lloyd R. General Medicine  
A.B., O.S.U. 1933; M.D., Harvard Medical School 1940; Assoc. Prof. 1963; Asst. Dean, Coll. of Medicine 1963- ; Prof. 1968-
- Feldman, Milton D. General Medicine  
B.A., Wayne U. 1937; M.D., U. of Michigan 1941; Asst. Prof. 1954-63
- Ferris, Thomas F. Renal Diseases  
A.B., Georgetown U. 1952; M.D., Yale U. 1956; Assoc. Prof. 1967- ; Dir., Division of Renal Diseases 1967-
- Folk, Robert L. Endocrinology  
B.A., O.S.U. 1960; M.D., O.S.U. 1960; Instr. 1967; Asst. Prof. 1968-
- Forman, Jonathan Allergy  
B.A., O.S.U. 1910; M.D., S.O.M.C. 1913; Prof. and Lecturer 1933; Emer. Prof. and Lecturer 1956-
- Forman, Wiley L. General Medicine  
A.B., U. of Kentucky 1931; M.A., Vanderbilt U. 1933; M.D., Vanderbilt U. 1937; Instr. 1941; Asst. Prof. 1946; Assoc. Prof. 1952; Prof. 1965-
- Frajola, Walter J. see Department of Physiological Chemistry
- Friedman, Harvey M. Neurology  
B.S., Kent State U. 1954; M.D., O.S.U. 1958; Instr. 1965; Asst. Prof. 1967-
- Fulton, Richard L. General Medicine  
A.B., Wittenberg Coll. 1939; M.D., O.S.U. 1944; Instr. 1949; Asst. Prof. 1951; Assoc. Prof. 1962-
- Gantt, Clarence L. Endocrinology  
B.S., Wake Forest Coll. 1949; M.D., Bowman Gray School of Medicine 1952; M.S., O.S.U. 1955; Asst. Prof. 1961-63

- George, Jack M. Endocrinology  
B.A., O.S.U. 1958; M.D., O.S.U. 1958; Asst. Prof. 1966- ; Program Director,  
Clinical Research Center 1967-
- Gifford, Gordon E. General Medicine  
M.D., O.S.U. 1948; Instr. 1956; Asst. Prof. 1960-68
- Goldberg, Robert F. General Medicine  
M.D., New York Medical Coll. 1948; Instr. 1952; Asst. Prof. 1963-
- Goodman, Richard M. Genetics  
B.S., U. of Cincinnati 1954; M.D., O.S.U. 1958; Asst. Prof. 1964-
- Gordon, Elijah J. General Medicine  
M.D., S.O.M.C. 1909; Instr. 1914; Asst. Prof. 1917; Prof. 1925-54; Chr., Dept.  
of Medicine, 1926-36; Director of Dispensaries 1920-54; Emer. Prof. 1954; d.  
1963
- Goulder, Norman E. General Medicine  
A.B., Oberlin Coll. 1936; M.D., Harvard U. 1940; Instr. 1950; Asst. Prof. 1954-
- Gourgoutis, George D. Gastroenterology  
M.D., U. of Salonika, Greece 1954; Instr. 1967; Asst. Prof. 1968-
- Graves, Grant O. see Department of Anatomy
- Gregor, David H. General Medicine  
B.A., O.S.U. 1938; M.D., O.S.U. 1941; Instr. 1952; Asst. Prof. 1968-
- Greenberger, Norton J. Gastroenterology  
A.B., Yale U. 1955; Western Reserve U. Medical School 1959; Asst. Prof. Med.  
1965-67; Assoc. Prof. Med. and Dir., Div. G. E. 1967-
- Gresham, Glen E. see Department of Preventive Medicine
- Grubbs, Robert C. see Department of Physiology
- Guthrie, Morris B. General Medicine  
B.A., Manchester Coll. 1929; M.A., O.S.U. 1936; M.D., O.S.U. 1935; Instr. 1942;  
Asst. Prof. 1946; Assoc. Prof. 1968-
- Gwinup, Grant W.D.M. Endocrinology  
B.A., U. of Colorado 1953; M.D., U. of Colorado 1956; Instr. 1961; Asst. Prof.  
1963-65
- Hamwi, George J. Endocrinology  
B.S., American U. of Beirut 1936; M.D., American U. of Beirut 1940; M.Sc., O.S.U.  
1947; Instr. 1947; Asst. Prof. 1949; Assoc. Prof. 1952; Prof. 1958; d. 1967;  
Dir., Division of Endocrinology and Metabolism 1951-67; Dir., Clinical Research  
Unit 1960-65
- Hard, Edward M. General Medicine  
M.D., U. of Rochester 1938; Instr. 1953; Asst. Prof. 1954-65

- Harris, Willard S. General Medicine  
B.A., Cornell U. 1953; M.D., New York U. 1957; Asst. Prof. 1965; Assoc. Prof. 1968
- Hatcher, Emerson R. General Medicine  
A.B., Berea Coll. 1934; M.D., Cornell U. 1938; Instr. 1946; Asst. Prof. 1949; Assoc. Prof. 1966-
- Hatfield, Charles J. General Medicine  
B.A., O.S.U. 1942; M.D., O.S.U. 1945; Instr. 1949; Asst. Prof. 1953; Assoc. Prof. 1968-
- Haynie, H. Campbell Ambulatory Medicine  
B.A., Vanderbilt U. 1934; M.D., Vanderbilt U. 1937; Asst. Prof. 1946; Assoc. Prof. 1954- ; Asst. and Assoc. Medical Director of Starling Loving Hospital, 1946-51; Director of Out-Patient Dept. 1951-52; Director of Medical Service of Out-Patient Department 1952-62
- Heisel, Eldred B. Dermatology  
A.B., Akron U. 1933; M.S., O.S.U. 1939; Instr. 1944; Asst. Prof. 1948; Assoc. Prof. 1950; Prof. 1958- ; Dir., Division of Dermatology 1952-66
- Herrington, Frank H. see Department of Preventive Medicine
- Houghton, Benjamin C. see Department of Preventive Medicine
- Hull, Hugh B. Cardiology  
B.A., O.S.U. 1942; M.D., O.S.U. 1944; Instr. 1951; Asst. Prof. 1952-59
- Hummel, George P. General Medicine  
B.A., O.S.U. 1942; M.D., O.S.U. 1944; Instr. 1949; Asst. Prof. 1951; Assoc. Prof. 1967-
- Humphrey, Harold I. General Medicine  
B.S., Grove City Coll. 1929; M.D., U. of Pennsylvania 1934; Instr. 1946; Asst. Prof. 1951-
- Huston, John R. General Medicine  
B.A., O.S.U. 1947; M.D., O.S.U. 1947; Instr. 1955; Asst. Prof. 1960; Assoc. Prof. 1965-
- Jacques, Richard H. Rheumatology  
B.A., Ohio Wesleyan U. 1934; M.D., Jefferson Medical Coll. 1938; Instr. 1948; Asst. Prof. 1950-
- Jensen, Wallace N. General Medicine  
B.A., U. of Utah 1942; M.D., U. of Utah 1945; Prof. 1967- ; Vice Chr., Dept. of Medicine and Dir., Division of General Medicine 1967-
- Johnson, Ernest W. see Department of Physical Medicine
- Johnson, Preston C., Jr. General Medicine  
B.S., Virginia State Coll. 1947; M.D., Harvard Medical School 1951; Instr. 1957; Asst. Prof. 1962-



- Keller, Martin D. see Department of Preventive Medicine
- Kezdi, Paul General Medicine  
B.A., Pazmany Peter U., Budapest, 1938; M.D., Pazmany Peter U., Budapest, 1942;  
Prof. 1965-
- Kirk, Robert C. General Medicine  
B.S., Yale U. 1930; M.D., O.S.U. 1934; Asst. Prof. 1941-
- Kissane, Ray W. Cardiology  
M.D., O.S.U. 1918; Assoc. Prof. 1946; Prof. 1949; Emer. Prof. 1965; d. 1965;  
Dir., Division of Cardiovascular Diseases, 1952-58; Lecturer 1933-46
- Klainer, Albert S. Infectious Diseases  
B.Sc., Massachusetts Institute of Technology 1957; M.D., Tufts U. 1961; Asst.  
Prof. 1968-
- Knies, Phillip T. General Medicine  
B.S., Capital U. 1927; M.D., O.S.U. 1931; Instr. 1934; Asst. Prof. 1937; Assoc.  
Prof. 1946; Prof. 1957-
- Kress, George O. Pulmonary Diseases  
M.D., O.S.U. 1939; Instr. 1946; Asst. Prof. 1952-66
- Kruger, Fred A. Endocrinology  
B.S., Rutgers U. 1942; M.D., O.S.U. 1951; Instr. 1954; Asst. Prof. 1957; Assoc.  
Prof. 1959-
- Kuperman, Jesse P. General Medicine  
A.B., Duke U. 1938; M.D., Johns Hopkins U. 1942; Asst. Prof. 1954-63
- Laneve, Samuel A. General Medicine  
B.S., U. of Richmond 1947; M.D., Georgetown U. 1951; Instr. 1957; Asst. Prof.  
1959-67
- Lefken, Edward B. General Medicine  
M.D., U. of Cincinnati 1947; Instr. 1954; Asst. Prof. 1957-
- Leighton, Richard F. Cardiology  
A.B., Western Maryland Coll. 1951; M.D., U. of Maryland 1955; Asst. Prof. 1965-
- Leonard, James J. Cardiology  
M.D., Georgetown U. 1950; Assoc. Prof. 1961-63
- Levine, Robert General Medicine  
B.A., O.S.U.; M.D., O.S.U.; Asst. Prof. 1966-
- Little, Robert C. see Department of Physiology
- Long, Roland E. Dermatology  
B.A., North Central Coll. 1943; M.D., O.S.U. 1948; Instr. 1955; Asst. Prof.  
1960; Assoc. Prof. 1968-

- Love, William R. General Medicine  
B.S., Kansas State Agriculture Coll. 1929; M.S., U. of Minnesota 1938; M.D.,  
U. of Kansas 1936; Asst. Prof. 1954; Assoc. Prof. 1968-
- Lubow, Martin see Department of Ophthalmology
- Martin, William B. General Medicine  
B.S., U. of Minnesota 1939; M.B., U. of Minnesota 1941; M.D., U. of Minnesota  
1942; M.S., U. of Minnesota 1949; Asst. Prof. 1965-
- Matre, William J. General Medicine  
M.D., U. of Cincinnati 1948; Instr. 1955; Asst. Prof. 1957-
- McCoy, Francis W. Rheumatology  
B.A., O.S.U. 1936; M.Sc., O.S.U. 1938; M.D., O.S.U. 1942; Instr. 1936-40; Asst.  
Prof. 1950-53, Dept. of Anatomy; Asst. Prof., Depts. of Medicine and Anatomy  
1955; Assoc. Prof., Depts. of Medicine and Anatomy 1957- ; Dir., Division of  
Rheumatology 1960-
- McCreary, James H. Dermatology  
B.A., O.S.U. 1934; M.D., O.S.U. 1939; Instr. 1949; Asst. Prof. 1968-
- McGavran, Charles W., II General Medicine  
B.A., Coll. of Wooster 1933; M.D., U. of Pennsylvania 1937; Instr. 1948; Asst.  
Prof. 1968-
- McKittrick, Charles J. General Medicine  
B.A., O.S.U. 1943; M.D., O.S.U. 1946; Asst. Prof. 1952-
- Mendelson, Louis H. General Medicine  
B.Sc., O.S.U. 1923; M.D., O.S.U. 1923; Asst. Prof. 1952-66
- Mengel, Charles E. Hematology  
A.B., Lafayette Coll. 1953; M.D., Johns Hopkins U. 1957; Assoc. Prof. 1965-68;  
Dir., Division of Hematology 1965-68
- Merkle, Harlan B. Gastroenterology  
A.B., Miami U. 1934; M.D., O.S.U. 1946; Instr. 1952; Asst. Prof. 1954-
- Metz, Earl N. Ambulatory Medicine  
B.S., Capital U. 1957; M.D., Duke U. 1961; Asst. Prof. 1968-
- Metzger, Paul S. General Medicine  
M.D., O.S.U. 1948; Instr. 1955; Asst. Prof. 1959-
- Michael, Nicholas see Department of Psychiatry
- Miller, Myron D. General Medicine  
M.D., U. of Louisville 1927; Instr. 1937; Asst. Prof. 1941; Assoc. Prof. 1943-  
45
- Mitchell, John H. Allergy  
B.A., O.S.U. 1928; M.D., O.S.U. 1928; Instr. 1938; Asst. Prof. 1942; Assoc.  
Prof. 1948; Prof. 1952- ; Dir., Division of Allergy 1952-1958

- Mitchell, William F. Allergy  
M.D., O.S.U. 1935; Instr. 1942; Asst. Prof. 1952; Assoc. Prof. 1959; Prof.  
1965- ; Dir., Division of Allergy 1959-
- Morrice, Jr., George Cardiology  
B.A., Emmanuel Missionary Coll. 1941; M.D., Coll. of Medical Evangelists 1944;  
Instr. 1952; Asst. Prof. 1954; Assoc. Prof. 1966-
- Murnane, Robert T. General Medicine  
B.S., U. of Notre Dame 1942; M.D., O.S.U. 1947; Instr. 1954; Asst. Prof. 1967-
- Murphy, Robert J. General Medicine  
B.A., O.S.U. 1943; M.D., O.S.U. 1946; Instr. 1952; Asst. Prof. 1956-
- Myers, William G. Nuclear Medicine  
B.A., O.S.U. 1933; M.Sc., O.S.U. 1937; Ph.D., O.S.U. 1939; M.D., O.S.U. 1941;  
Julius F. Stone Fellow 1945-49; Assoc. Prof. 1952; Prof. 1966- , Dept. of Radi-  
ology; Assoc. Prof. 1949, Prof. 1953- , Depts. of Physiology and Medicine;  
Julius F. Stone Research, Assoc. Prof. 1949
- Nelson, George I. General Medicine  
B.S., Iowa State Coll. 1918; M.D., State U. of Iowa 1923; Instr. 1925; Asst.  
Prof. 1929; Assoc. Prof. 1936; Prof. 1941; Emer. Prof. 1963-
- Obetz, Robin C. General Medicine  
B.Sc., O.S.U. 1928; M.D., O.S.U. 1928; Asst. Prof. 1945-
- Ogden, Eric see Department of Physiology
- Osborne, Morse F. General Medicine  
M.D., S.O. 1912; Assoc. Prof. 1934; Emer. Assoc. Prof. 1948-
- Palmer, Dwight M. Neurology  
B.Sc., O.S.U. 1929; M.Sc., O.S.U. 1933; M.D., O.S.U. 1932; Instr. 1929, Asst.  
Prof. 1934, Assoc. Prof. 1942, Prof. 1946- , Dept. of Anatomy; Chr., Dept. of  
Neurology and Psychiatry 1945-51; Prof., Dept. of Medicine 1951- ; Dir., Divi-  
sion of Neurology 1951-1965
- Parker, Milton M. see Department of Psychiatry
- Paulson, George W. Neurology  
B.S., Yale U. 1952; M.D., Duke U. 1956; Assoc. Prof. 1967-
- Perkins, Robert L. Infectious Diseases  
A.B., West Virginia U. 1953; B.S., West Virginia U. 1954; M.D., Johns Hopkins  
U. 1956; Instr. 1963; Asst. Prof. 1965-
- Phelps, Darwin K. General Medicine  
B.S., Heidelberg Coll. 1937; M.D., O.S.U. 1948; Instr. 1948, Asst. Prof. 1950- ,  
Dept. of Anatomy; Instr. 1950; Asst. Prof. 1954; Assoc. Prof. 1966- , Dept. of  
Medicine
- Philips, Vol K. General Medicine  
M.D., Washington U. 1947; Instr. 1956; Asst. Prof. 1958-

- Pine, Irving see Department of Psychiatry
- Polachek, Abraham General Medicine  
B.S., City Coll. of New York 1935; M.D., U. of Texas 1942; Asst. Prof. 1961-64
- Pollack, Alexander General Medicine  
B.A., O.S.U. 1936; M.D., O.S.U. 1939; Instr. 1947; Asst. Prof. 1963-
- Powell, Charles P. General Medicine  
M.S., Howard U. 1948; Instr. 1961; Asst. Prof. 1963-65
- Praver, Louis L. Dermatology  
M.D., Jefferson Medical Coll. 1941; Instr. 1946; Asst. Prof. 1951-66
- Prior, John A. Pulmonary Diseases  
B.A., O.S.U. 1935; M.D., O.S.U. 1938; Instr. 1944; Asst. Prof. 1946; Assoc. Prof. 1948; Prof. 1952- ; Acting Chr., Dept. of Preventive Medicine 1954; Asst. Dean, Coll. of Medicine 1954 and 1955, 1961-63; Assoc. Dean and Assoc. Dir. O.S.U. Hospitals 1963- ; Dir., Division of Pulmonary Diseases 1952-61
- Pritchett, Clark P. General Medicine  
B.A., O.S.U. 1930; M.D., O.S.U. 1934; Instr. 1938; Asst. Prof. 1949-
- Read, John T. General Medicine  
B.A., O.S.U. 1937; M.M.Sc., O.S.U. 1948; M.D., O.S.U. 1941; Instr. 1947; Asst. Prof. 1948; Assoc. Prof. 1968-
- Rose, S. Paul General Medicine  
B.A., Brooklyn Coll. 1938; M.D., Howard U. 1942; Asst. Prof. 1956-60
- Rosenberg, Leo General Medicine  
M.D., Tufts U. 1924; Instr. 1955; Asst. Prof. 1958-63
- Rosenow, Oscar F. General Medicine  
B.A., U. of Wisconsin 1929; M.D., U. of Wisconsin 1931; Instr. 1955; Asst. Prof. 1958-
- Ross, Paul S. General Medicine  
B.A., Oberlin Coll. 1927; M.D., Yale U. 1931; Instr. 1949; Asst. Prof. 1950-
- Rothermich, Norman O. General Medicine  
B.S., St. Louis U. 1934; M.D., St. Louis U. 1936; Instr. 1941; Asst. Prof. 1946; Assoc. Prof. 1952; Prof. 1960- ; Dir., Division of Arthritis and Rheumatic Diseases, 1950-60
- Ruiz, Armando E. General Medicine  
B.A., Inst. Prov. Camaguey, Cuba 1934; M.D., U. of Havana 1941; Instr. 1965; Asst. Prof. 1967-
- Ruppert, Richard D. Ambulatory Medicine  
B.S., O.S.U. 1957; M.D., O.S.U. 1961; Instr. 1964; Asst. Prof. 1968- ; Dir., Division of Ambulatory Medicine 1968-
- Ryan, Joseph M. Cardiology  
B.A., O.S.U. 1940; M.D., U. of Michigan 1943; Asst. Prof. 1951; Assoc. Prof. 1957; Prof. 1962- ; Dir., Division of Cardiology 1958-64

- Sapirstein, Leo A. see Department of Physiology
- Saslaw, Samuel Infectious Diseases  
A.B., Transylvania Coll. 1937; M.S., U. of Kentucky 1939; Ph.D., O.S.U. 1942;  
M.D., O.S.U. 1946; Asst. Prof. 1950; Assoc. Prof. 1952; Prof. 1958- ; Dir.,  
Division of Infectious Diseases 1952-
- Schieve, James F. Renal Diseases  
M.D., U. of Cincinnati 1943; Asst. Prof. 1952; Assoc. Prof. 1958; Prof. 1962-  
67; Dir., Division of Renal Diseases 1960-67; Dir. of Medical Service of Out-  
Patient Department 1962-67
- Schoene, Robert H. General Medicine  
M.D., O.S.U. 1935; Instr. 1938; Asst. Prof. 1946; Assoc. Prof. 1962; Prof. 1965-
- Schoenfeld, Clyde D. Cardiology  
B.S., Youngstown U. 1952; M.D., O.S.U. 1956; Instr. 1964; Asst. Prof. 1965-
- Seyler, Lloyd E. General Medicine  
B.S., Wooster Coll. 1927; M.D., U. of Pennsylvania 1931; Asst. Prof. 1954-
- Sharkey, Thomas P. Endocrinology  
B.A., Miami U. 1926; M.D., U. of Cincinnati 1930; Instr. 1947; Asst. Prof. 1948-
- Shepard, Joseph H. Dermatology  
A.B., O.S.U. 1933; M.D., O.S.U. 1936; Instr. 1946; Asst. Prof. 1951-67
- Sherburne, Clifford C. General Medicine  
B.S., Denison U. 1917; M.D., Washington U. 1921; Instr. 1931; Asst. Prof. 1942;  
Assoc. Prof. 1948; Prof. 1951-65; Emer. Prof. 1965; d. 1965
- Shillito, Frederick H. see Preventive Medicine
- Shuttleworth, Edwin C. Neurology  
M.D., Albany Medical College 1962; Instr. 1967; Asst. Prof. 1968-
- Silberstein, Jack S. General Medicine  
B.A., O.S.U. 1936; M.Sc., O.S.U. 1941; M.D., O.S.U. 1939; Instr. 1948; Asst.  
Prof. 1949; Assoc. Prof. 1952; Prof. 1968-
- Simmerman, Seymour General Medicine  
B.S., Coll. of William and Mary 1941; M.D., Long Island Coll. of Medicine;  
Asst. Prof. 1954-60
- Simon, S. William General Medicine  
B.S., U. of Chicago 1924; M.S., U. of Chicago 1926; M.D., Rush Medical Coll.  
1929; Asst. Prof. 1954-67
- Skillman, Thomas G. Endocrinology  
B.S., Baldwin Wallace Coll. 1946; M.D., U. of Cincinnati 1949; Asst. Prof. 1957-  
61; Prof. 1967- ; Dir., Division of Endocrinology and Metabolism 1967-
- Slutzker, Berkeley General Medicine  
B.S., U. of Missouri 1947; M.D., U. of Illinois 1949; Instr. 1955; Asst. Prof.  
1957-61

- Smith, Edwin J. Renal Diseases  
B.A., U. of Michigan 1954; M.D., New York Medical Coll. 1958; Instr. 1963;  
Asst. Prof. 1967-68
- Smith, Warren W. General Medicine  
M.D., New York U. 1948; Instr. 1955; Asst. Prof. 1963-
- Sotos, Juan F. see Department of Pediatrics  
M.D., Medical School of Valencia, Spain, 1951; Asst. Prof. 1963-
- Stow, Richard W. General Medicine  
B.S., Michigan State Coll. 1937; M.S., Pennsylvania State Coll. 1940; Ph.D.,  
U. of Minnesota 1953; Asst. Prof. 1953-66
- Sutherland, Thomas H. General Medicine  
B.A., O.S.U. 1919; L.L.B., Blackstone Institute 1932; M.D., Johns Hopkins U.  
1923; Lecturer in Medical Law, 1941-59
- Taguchi, James T. General Medicine  
B.A., U. of Colorado 1942; M.D., U. of Colorado 1945; Instr. 1955; Asst. Prof.  
1956; Assoc. Prof. 1965-
- Talbott, G. Douglas General Medicine  
A.B., Yale U. 1944; M.D., Columbia Medical School 1949; Assoc. Prof. 1966-
- Tennenbaum, James I. Allergy  
B.S., U. of Cincinnati 1954; M.D., U. of Cincinnati 1958; Instr. 1965; Asst.  
Prof. 1967-
- Tiber, Arthur M. General Medicine  
B.S., Coll. of City of New York 1925; M.D., New York U. 1929; Asst. Prof. 1954-
- Tomashefski, Joseph F. Pulmonary Diseases  
M.D., Hahnemann Medical Coll. 1947; Asst. Prof. 1953-
- Tomasulo, Albert General Medicine  
B.A., Cornell U. 1931; Royal U. of Rome 1935; Asst. Prof. 1954-59
- Tarnowski, William M. Allergy  
B.S., Fordham U. 1956; M.D., Georgetown U. 1960; Asst. Prof. 1968-
- Tronstein, Arthur J. General Medicine  
A.B., Western Reserve U. 1929; M.D., O.S.U. 1935; Instr. 1951-54; Asst. Prof.  
1958; Assoc. Prof. 1968-
- Tzagournis, Manuel Endocrinology  
B.S., O.S.U. 1956; M.D., O.S.U. 1960; Instr. 1967; Asst. Prof. 1968
- Vincent, Donald J. Rheumatology  
M.D., O.S.U. 1937; Instr. 1955; Asst. Prof. 1958-
- Wall, Robert L. Hematology  
A.B., Oberlin Coll. 1943; M.D., Temple U. 1946; Instr. 1951; Asst. Prof. 1952;  
Assoc. Prof. 1957; Prof. 1965-

- Warren, James V. Cardiology  
B.A., O.S.U. 1935; M.D., Harvard Medical School 1939; Prof. 1961- ; Chr.,  
Department of Medicine 1961-
- Watson, John S. General Medicine  
B.A., O.S.U. 1941; Jefferson Medical Coll. 1944; Instr. 1950; Asst. Prof. 1967-
- Weinberg, Sylvan L. General Medicine  
B.S., Northwestern U. 1945; M.D., Northwestern U. 1946; Asst. Prof. 1956-
- Weissler, Arnold M. Cardiology  
B.A., New York U. 1948; M.D., New York State U. 1953; Asst. Prof. 1961; Assoc.  
Prof. 1963; Prof. 1967- ; Dir., Division of Cardiology 1965-
- Wentworth, Frederick H. see Department of Preventive Medicine
- Wenzel, Richard L. General Medicine  
A.B., Marietta Coll. 1943; M.Sc., O.S.U. 1946; Instr. 1953; Asst. Prof. 1957-58
- Wiederholt, Wigbert C. Neurology  
M.D., Albert Ludwigs U., Freiberg, Germany, 1956; M.S., U. of Minnesota 1965;  
Asst. Prof. 1966-
- Wieland, Ralph G. Endocrinology  
B.A., Yale U. 1952; M.D., U. of Pennsylvania 1956; Asst. Prof. 1964-67
- Wilce, John W. General Medicine  
B.A., U. of Wisconsin 1910; M.D., O.S.U. 1919; Prof. 1934; Emer. Prof. 1958;  
d. 1963; Dir., University of Health Service 1934-58
- Williams, Homer E. General Medicine  
B.S., Western Reserve U. 1953; M.D., O.S.U. 1956; Asst. Prof. 1964-
- Williams, Thomas J. General Medicine  
B.S., Denison U. 1948; M.D., Northwestern U. 1951; Instr. 1955; Asst. Prof. 1967-
- Williard, Thomas B. General Medicine  
A.B., Princeton U. 1950; M.D., U. of Cincinnati 1955; Instr. 1959; Asst. Prof.  
1968-
- Wilson, Henry E. Hematology  
A.B., U. of Illinois 1932; M.D., McGill U. 1937; Asst. Prof. 1943; Assoc. Prof.  
1945-46, 1954; Prof. 1955- ; Vice Chr., Dept. of Medicine 1954-59; Acting Chr.,  
Department of Medicine 1960; Dir., Division of Biophysics and Radioisotopes  
1957-67
- Wiseman, Bruce K. Hematology  
B.S., Indiana U. 1926; M.D., Indiana U. 1928; Asst. Prof. 1930 and Assoc. Prof.  
1934, Department of Medical and Surgical Research; Assoc. Prof., Department of  
Medicine, 1936; Prof. 1939; d. 1960; Chr., Department of Medicine 1944-60
- Woods, Gladys G. General Medicine  
B.S., U. of Oklahoma 1934; M.A., Oklahoma A. & M. Coll. 1936; M.S., Stanford U.  
1951; Instr. 1953; Asst. Prof. 1956-62

Wooley, Charles F.

Cardiology

B.S., Providence Coll. 1950; M.D., New York Medical Coll. 1954; Asst. Prof. 1963; Assoc. Prof. 1967-

Woolpert, Oram C.

see Department of Microbiology

Worden, Ralph E.

Physical Medicine

B.Sc., U. of Nebraska 1942; M.S., U. of Minnesota 1949; M.D., U. of Nebraska 1944; Asst. Prof. 1951; Assoc. Prof. 1955; Prof. 1956-59; Dir., Division of Physical Medicine 1951-58; Director, Rehabilitation Center 1953-58

Zeman, Wolfgang

see Department of Psychiatry



INSTRUCTORS

Alpers, Jacob., M.D.; 1939; d. 1966

Anthony, Michael A., B.Sc., M.D.; 1956-

Andrus, Willard B., A.B., M.D.; 1948-66

Baldwin, Charles A., B.A., M.D.; 1949-62

Barker, Raymond E., B.A., M.D.; 1956-

Baum, Walter, A.B., M.S., M.D.; 1951-

Bell, George E., M.S., M.D.; 1955-

Bergen, Waldemar, M.D.; 1959-

Bethel, Raymond W., B.A., M.D.; 1956-

Bixel, Janet K., M.D.; 1963-

Bohl, Robert W., B.A., M.D.; 1952-

Bonnell, Rollo W., A.B., M.D.; 1941-

Bower, Wade D., B.S., M.D.; 1942-68

Boyle, Joseph H., A.B., M.D.; 1954-

Brashear, Richard E., B.Sc., M.D. 1965-67

Bronstein, Herbert A., M.D.; 1964-

Brooks, Richard H., B.A., M.D.; 1948-62

Buchan, John H., D.S.C.; 1966-

Burkhart, William E., M.D.; 1951; d. 1967

Burroughs, Lyle W., M.D.; 1959-61

Call, Arthur M., B.A., M.A., M.D.; 1966-

Cerney, Charles I., A.B., M.D.; 1958-68

Clark, Thomas E., B.S., M.D.; 1946-

Cole, Byron K., B.A., M.D.; 1967-

Condon, John F., M.D.; 1961-

Cross, Charles J., B.A., M.D.; 1949-

Cunningham, Charles A., A.B., M.D.; 1959-  
Curran, Robert M., B.S., M.D.; 1965-67  
Davis, Galen H., B.A., M.Sc., M.D.; 1967-  
DeGuzman, Ricardo D., M.D.; 1968-  
Evans, John R., B.A., M.D.; 1965-  
Evans, Walter L., A.B., M.D.; 1960-67  
Fish, Marvin, B.A., M.D.; 1954-  
Fisher, F. David, A.B., M.D.; 1963-  
Freeble, Jr., Charles A., B.S., M.P.H., M.D.; 1949-60  
Gallagher, Clarence M., B.A., M.D.; 1946-  
Goldmeier, Maynard, B.A., M.D.; 1963-  
Greene, Joseph C., B.S., M.D.; 1956-  
Greiner, Charles E., D.S.C.; 1966-  
Gwinner, Georgia E., M.T.; 1952-68  
Hankinson, Dorence O., M.D.; 1947-  
Harding, Frances K., B.S., M.D.; 1952-  
Heering, Roger E., M.D., M.P.H.; 1953-65  
Hoeflinger, George R., B.A., M.D.; 1959-  
Hoffman, Donald E., B.A., M.D.; 1965-  
Hughes, James J., B.S., M.D.; 1948-65  
Jajuli, Bulent, M.D.; 1965-  
Jamison, Andrew M., A.B., M.D.; 1948-55; 1958-  
Jennings, Raymond L., B.S., M.D.; 1959-  
Jepsen, Oscar W., B.S., M.D.; 1935-63  
Junkerman, Carl S., M.D.; 1950-62  
Keith, Paul F., A.B., M.D.; 1966-  
Klages, Reynold E., Jr., B.A., M.D.; 1957-  
Krakoff, Morris A., B.S., M.D.; 1949-

Kroetz, Frank W., B.S., M.S., M.D.; 1961-63

Lach, Ralph D., B.S., M.D.; 1964-

Landen, C. C., B.Sc., M.D.; 1947-

Leon, Jorge A., M.D.; 1964; d. 1966

Liepack, Jerry G., B.A., M.D.; 1967-

Long, Peter I., M.D.; 1967-

Lovebury, William F., B.S., M.D.; 1947-63

Lucas, Leo A., M.D.; 1963-66

Lutz, W. Beale, B.A., M.D.; 1957-

Marker, Howard W., B.A., M.D.; 1965-66

Marks, Jack, B.A., M.D.; 1957-68

Marshall, William J., B.S., M.D.; 1966-

Martin, John E., M.D.; 1948-66

Masangkay, Manuel P., B.A., M.D.; 1967-

Mayers, Robert A., M.D.; 1955-66

Mazzaferri, Ernest L., M.D.; 1967-

McBroom, Russell E., B.S., M.D.; 1955-67

Mehbod, Hassan, M.D.; 1967-

Messick, Richard T., B.A., M.S., M.D.; 1957-

Miller, Jack A., D.S.C.; 1966-

Millhon, Judson S., B.A., M.D.; 1961-

Millhon, William A., B.A., M.D.; 1961-

Mitchell, John A., B.A., M.D.; 1957-66

Morales, Enrique E., B.S., M.D.; 1968-

Morton, Paul S., A.B., M.D.; 1965-66; 1968-

Munsey, William F., D.S.C.; 1966-

Oates, Larry A., B.S., M.D.; 1968-

O'Brien, Richard E., B.S., M.D.; 1962-

Orlando, Michael A., B.S., M.D.; 1964-

Oser, Beryl M., M.D.; 1955-65

Perrine, George A., B.A., M.D.; 1968-

Quillin, Alston M., B.S., M.D.; 1966-

Reinhart, Robert L., M.D.; 1958-

Rimelspach, John J., B.A., M.D.; 1953-66

Rose, Fred I., A.B., M.D.; 1961-

Rose, Stewart M., M.D.; 1961-

Runco, Vincent, Jr., M.D.; 1960-61

Sataline, Lee R., B.A., M.D., M.S.; 1961-63

Schmitt, John A., See Department of Medical Microbiology

Seidensticker, John F., B.S., M.D.; 1967-

Shearer, Gerhard T., B.A., M.D.; 1949-

Sheline, Alan E., A.B., M.D.; 1963-

Simon, Juan A., M.D.; 1966-

Sivon, Iola A., B.A., M.D.; 1942-

Smith, Douglas L., B.A., M.D.; 1959-

Snider, Gordon B., B.A., M.D.; 1962-63

Stanley, Edwin L., B.S., M.D.; 1962-64

Stevens, John P., B.S., M.D.; 1961-

Stitts, Curtis S., M.D.; 1966-

Stout, Walter M., B.A., B.Sc., M.D., M.A.; 1948-

Tchen, Peter C. Y., M.D.; 1953-59

Thomas, Fred B., B.A., M.D.; 1968-

Thomas, Marvin H., B.A., M.D.; 1968-

Uesu, Chistu T., M.D.; 1961-64

Updegraff, Ralph K., B.S., M.D.; 1960-65

Vaughan, James A., B.Sc., M.D.; 1968-

Wallace, Richard H., B.Sc., M.D.; 1949-66

Wilson, Charles W., B.S., M.D.; 1953-

Wynsen, Henry J., B.S., M.D.; 1959-66

Yochem, Donald E., B.S., M.D., M.S.; 1935-39; 1950-62

Zangmeister, Mark H., B.S., M.D.; 1964-